

FIG.1

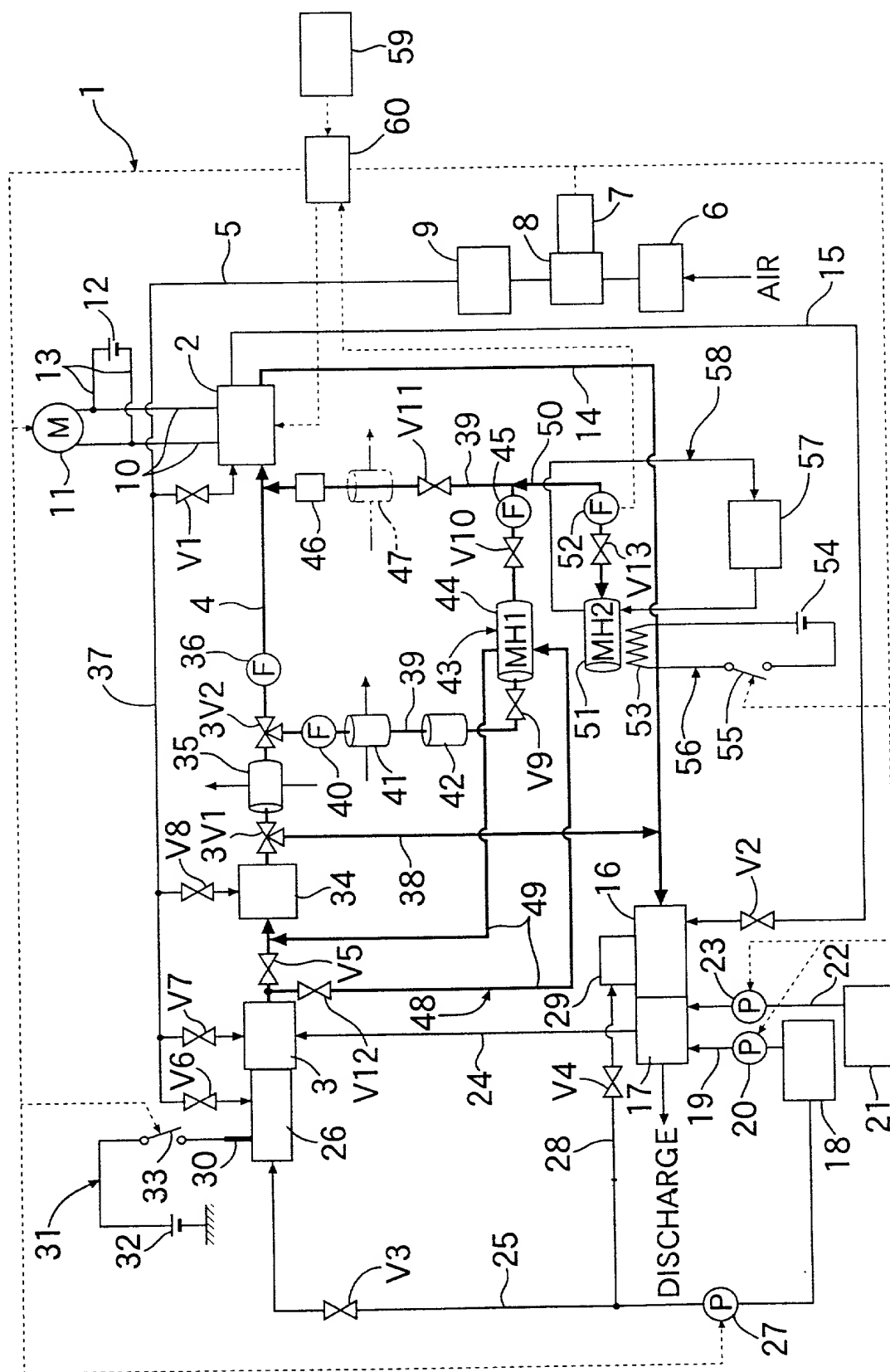


FIG.2

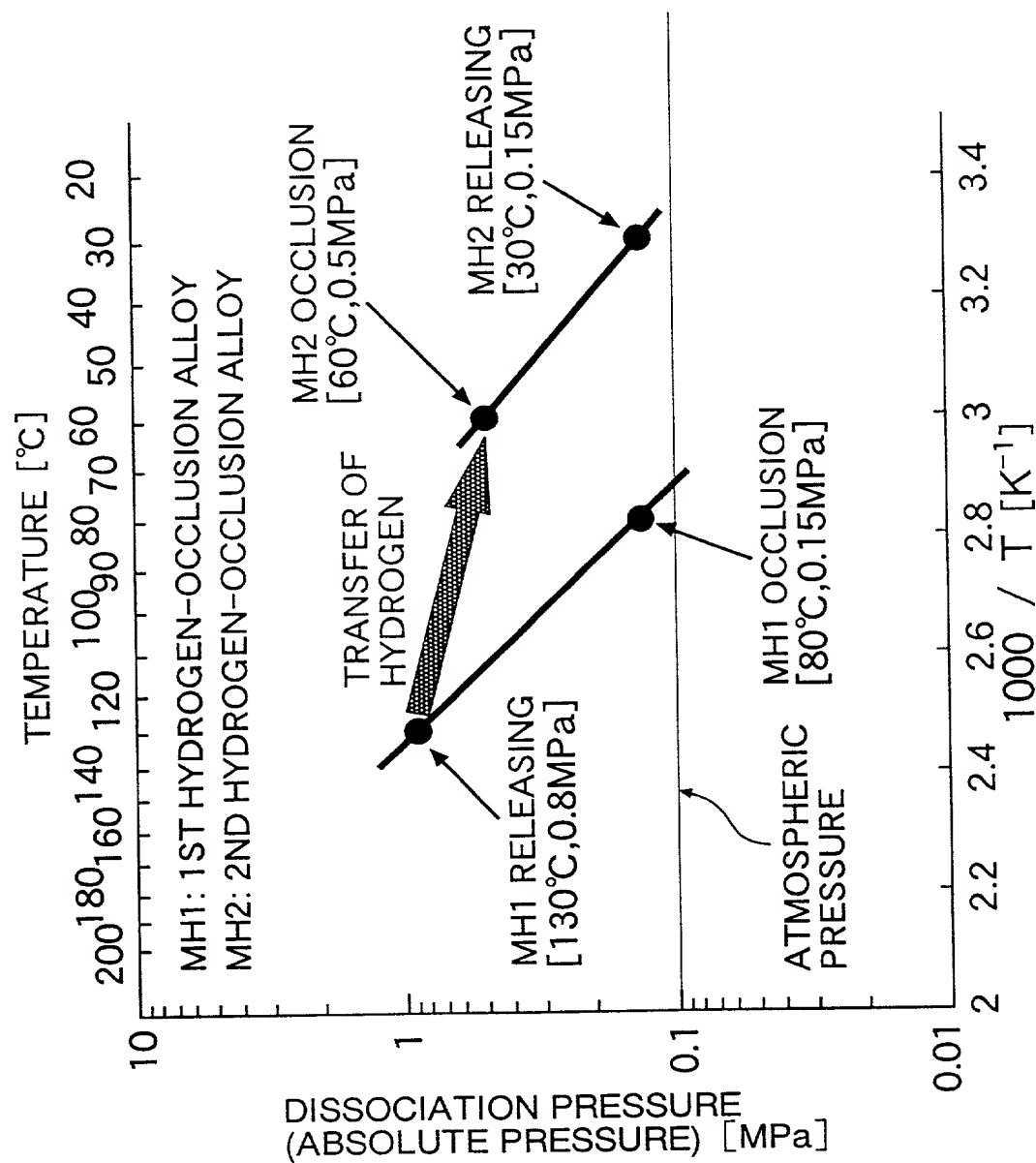


FIG.3

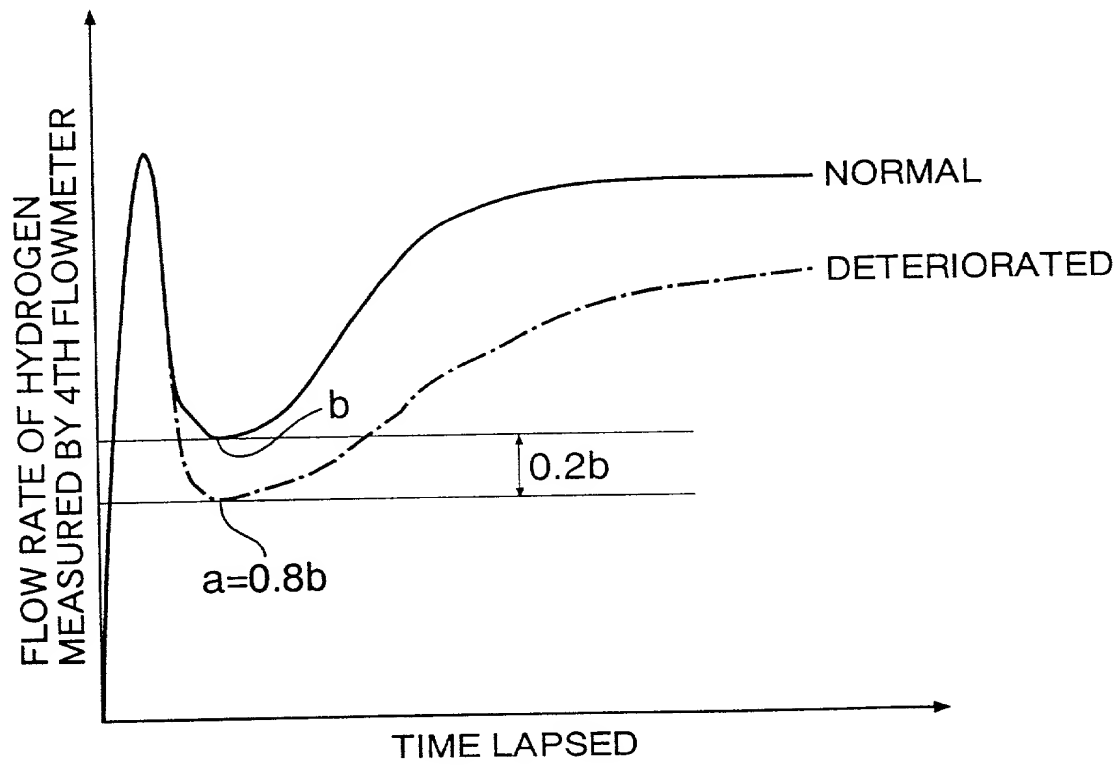
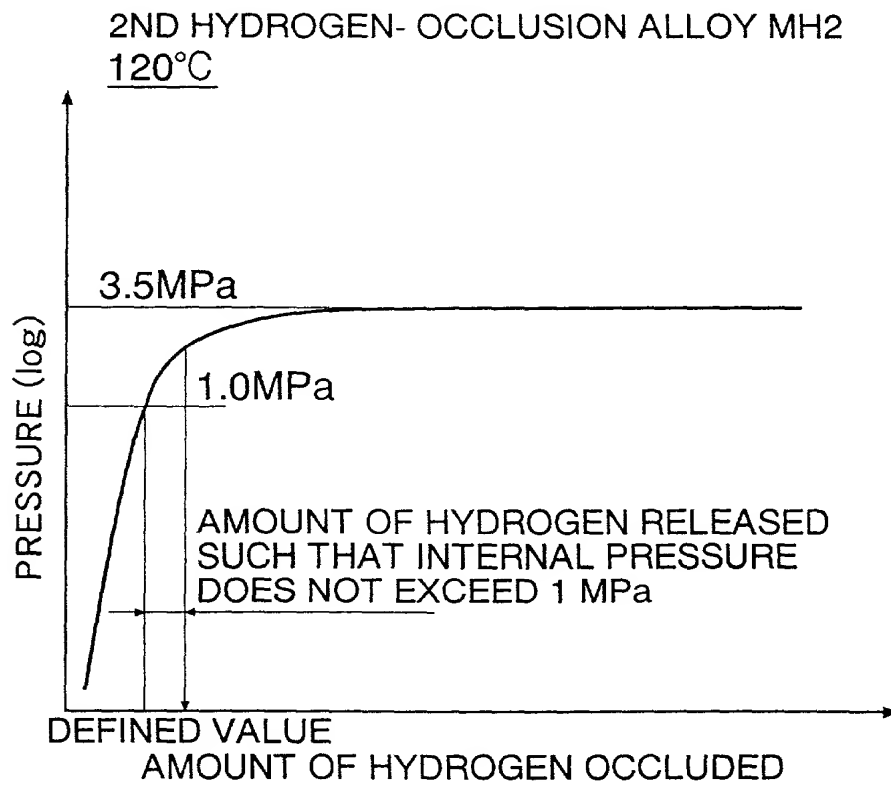


FIG.4



# START MODE

FIG. 5

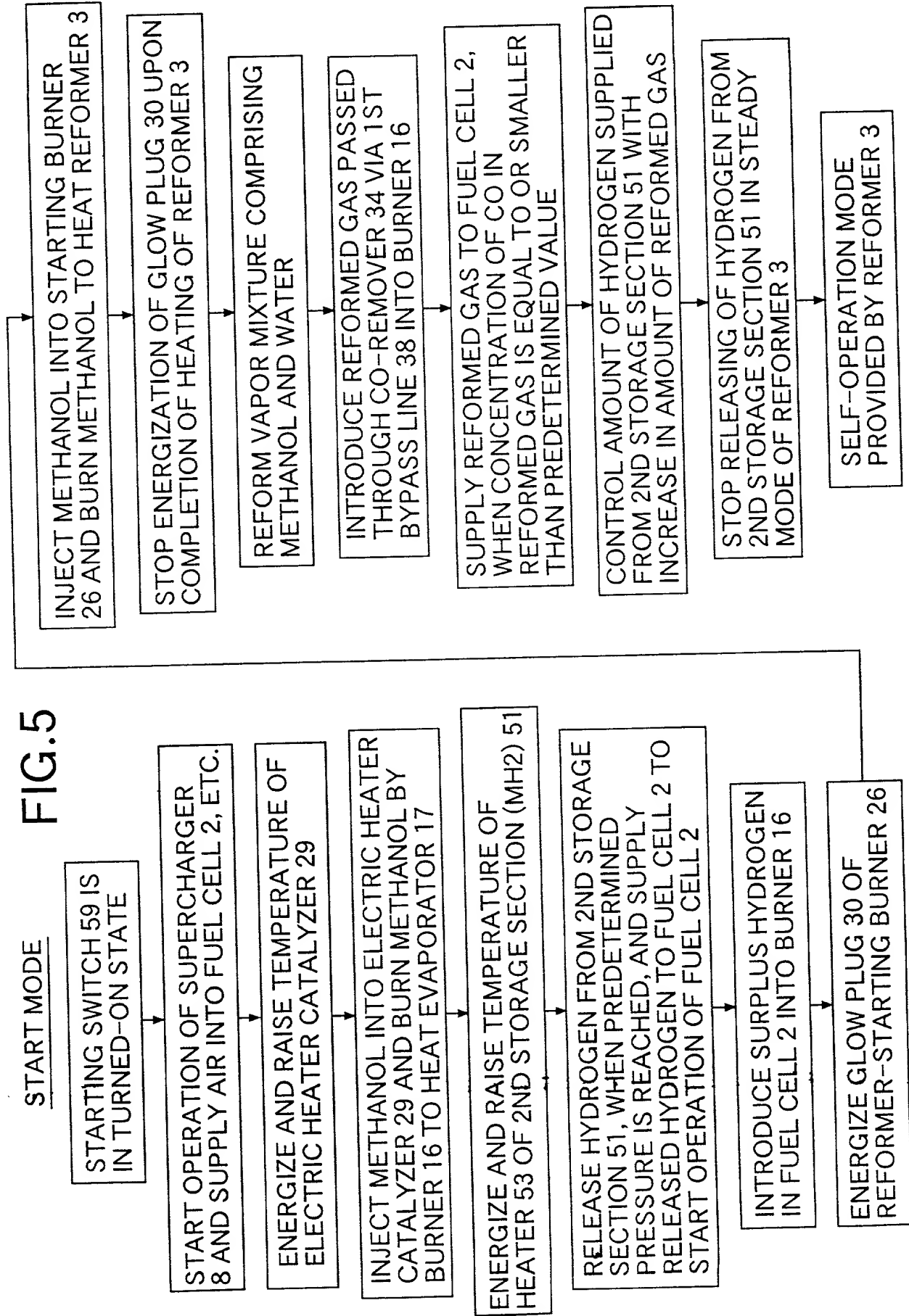


FIG.6

HYDROGEN OCCLUSION MODE (STEADY TRAVELING)

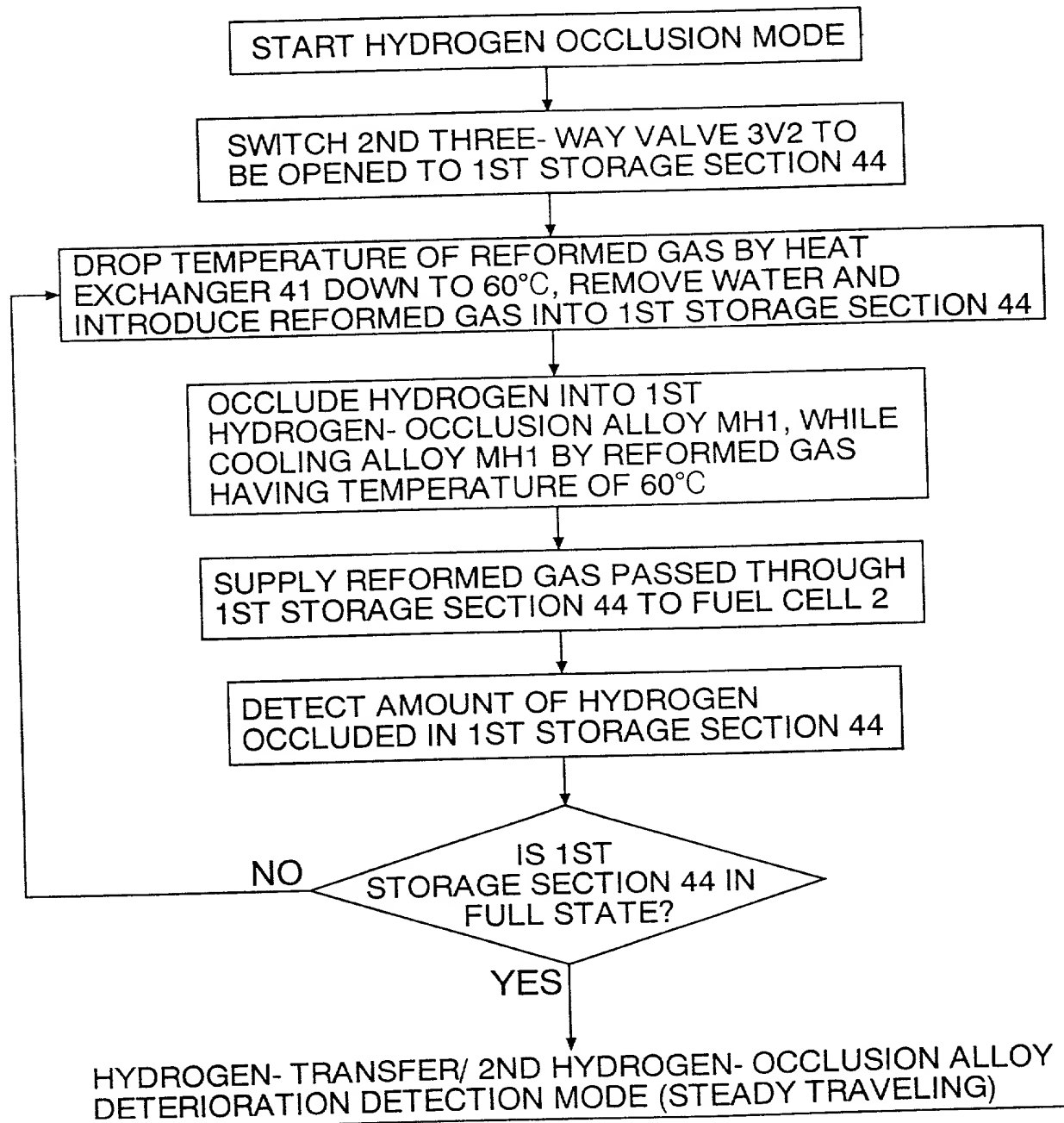


FIG. 7

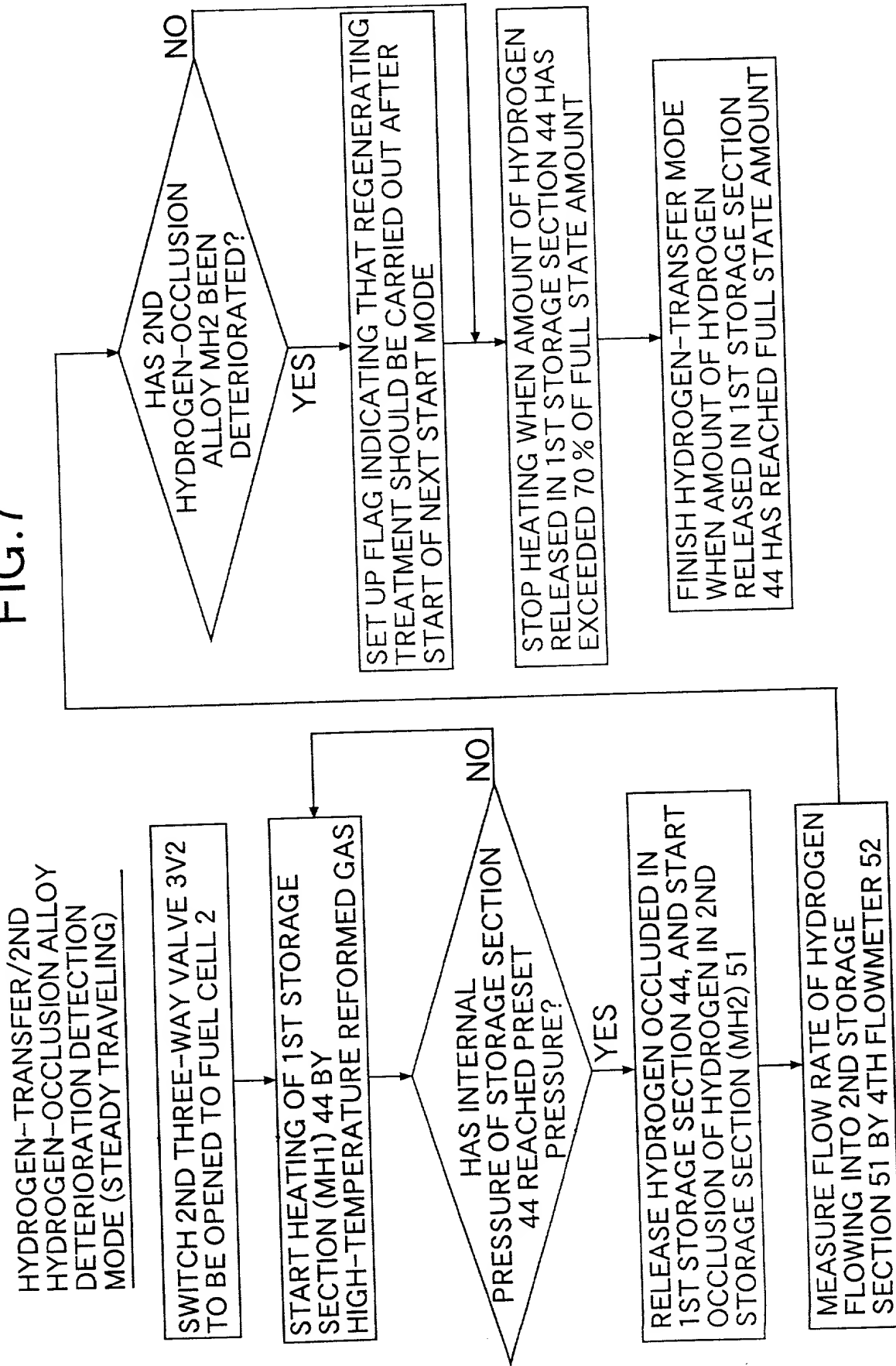


FIG.8

2ND HYDROGEN-OCCLUSION  
ALLOY REGENERATION MODE

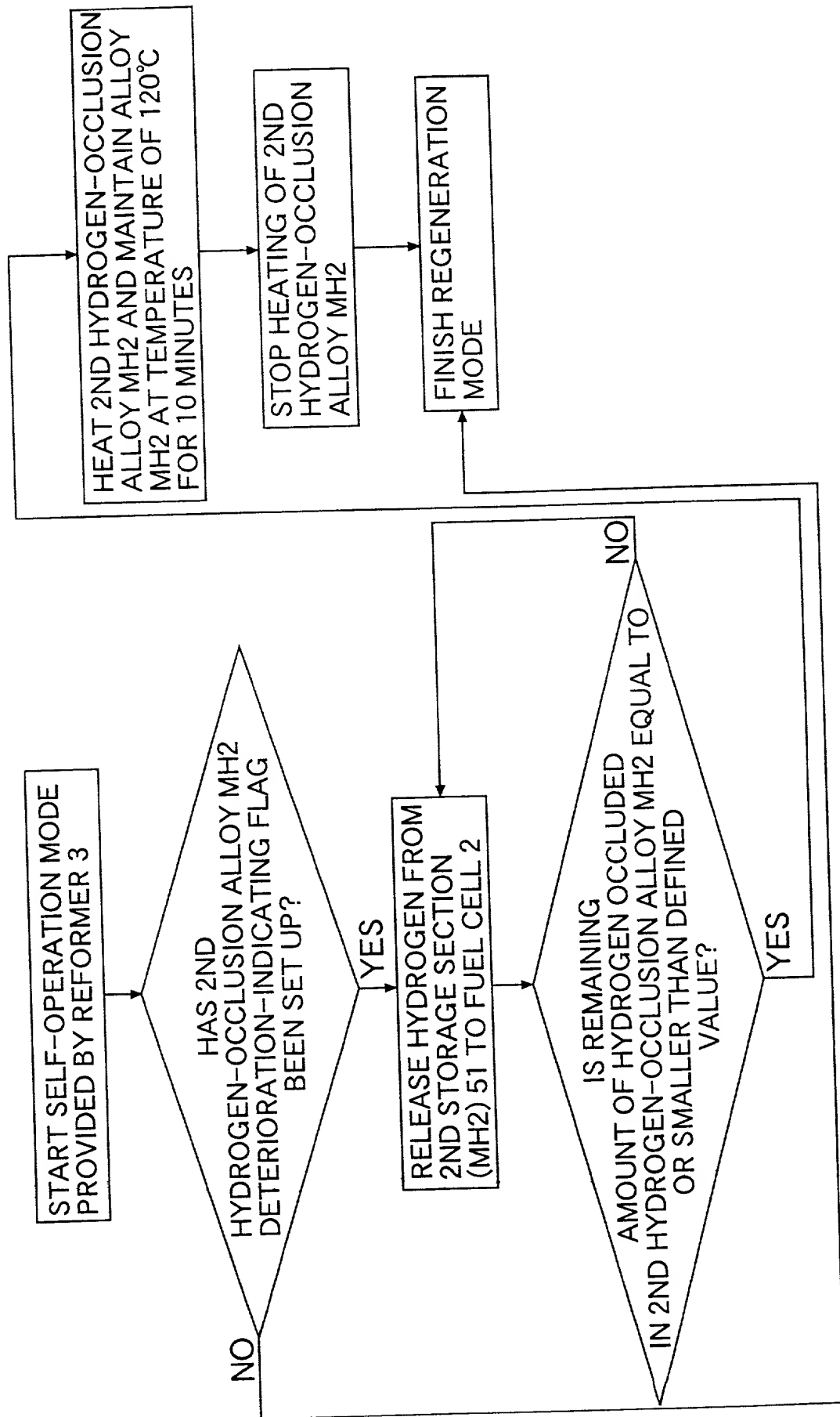






FIG.10

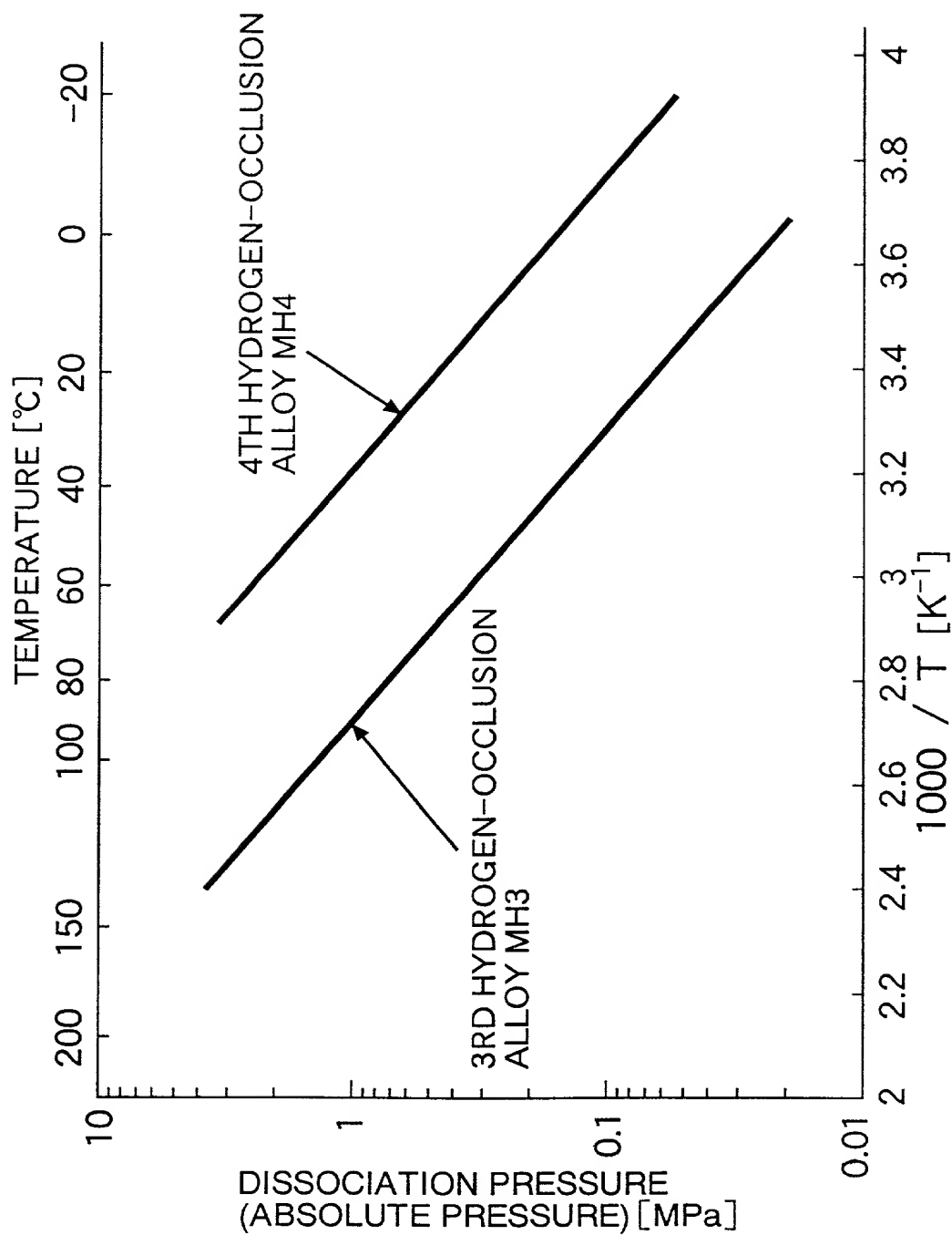


FIG.11

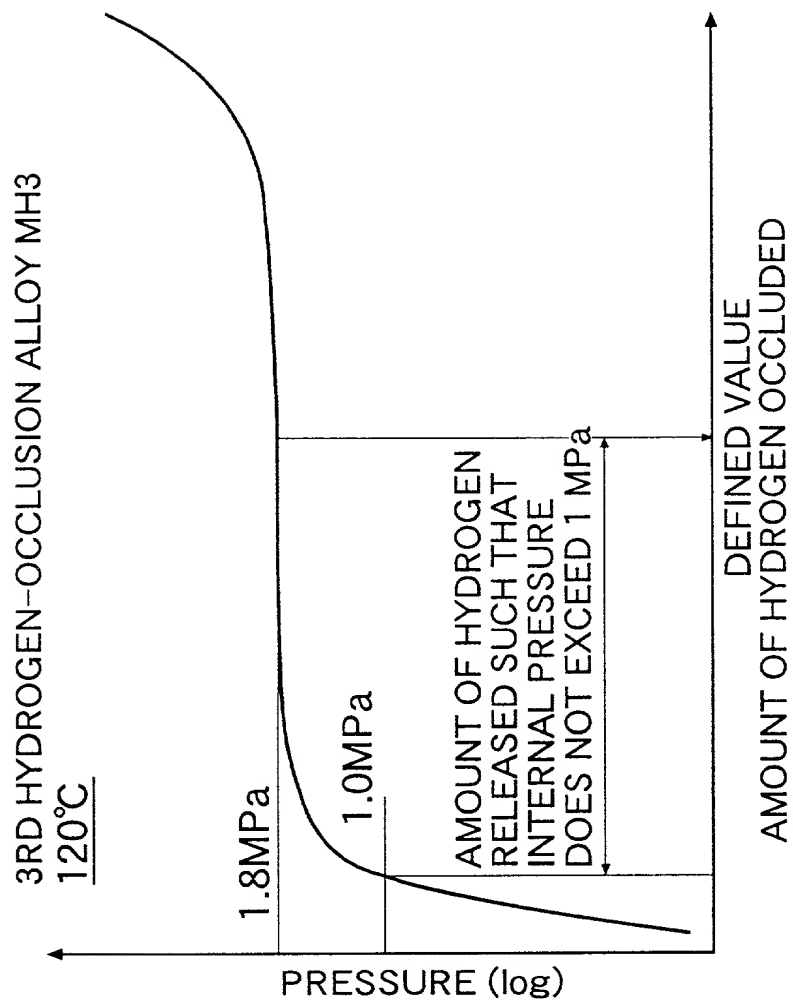


FIG.12

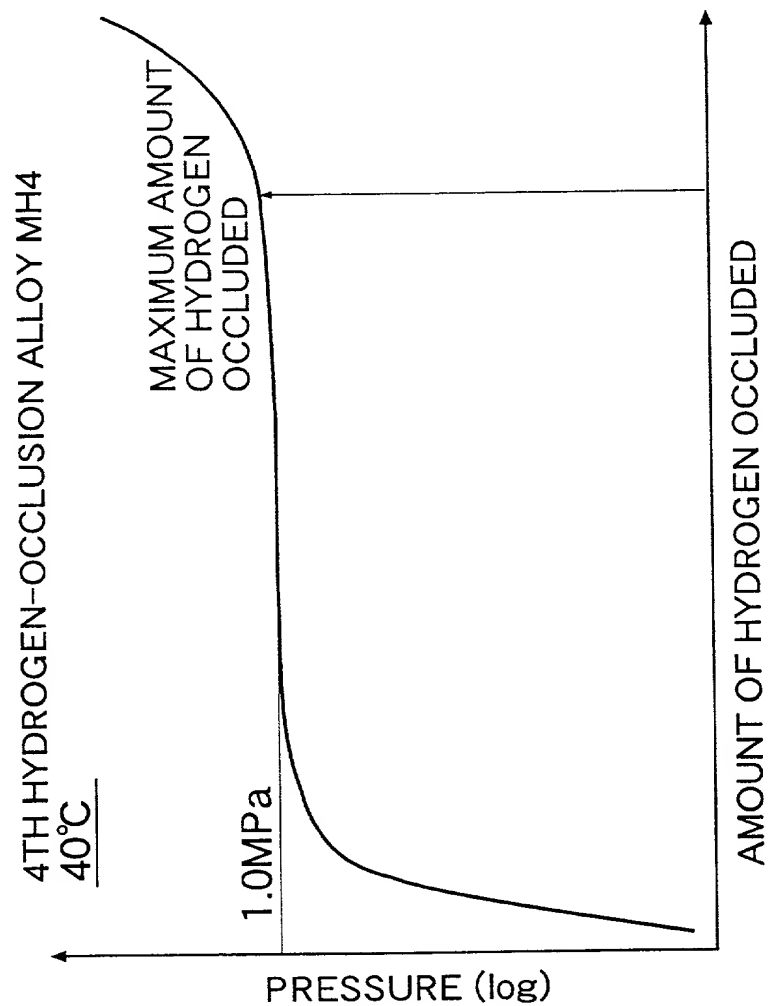


FIG.13

START/ TRAVELING MODE

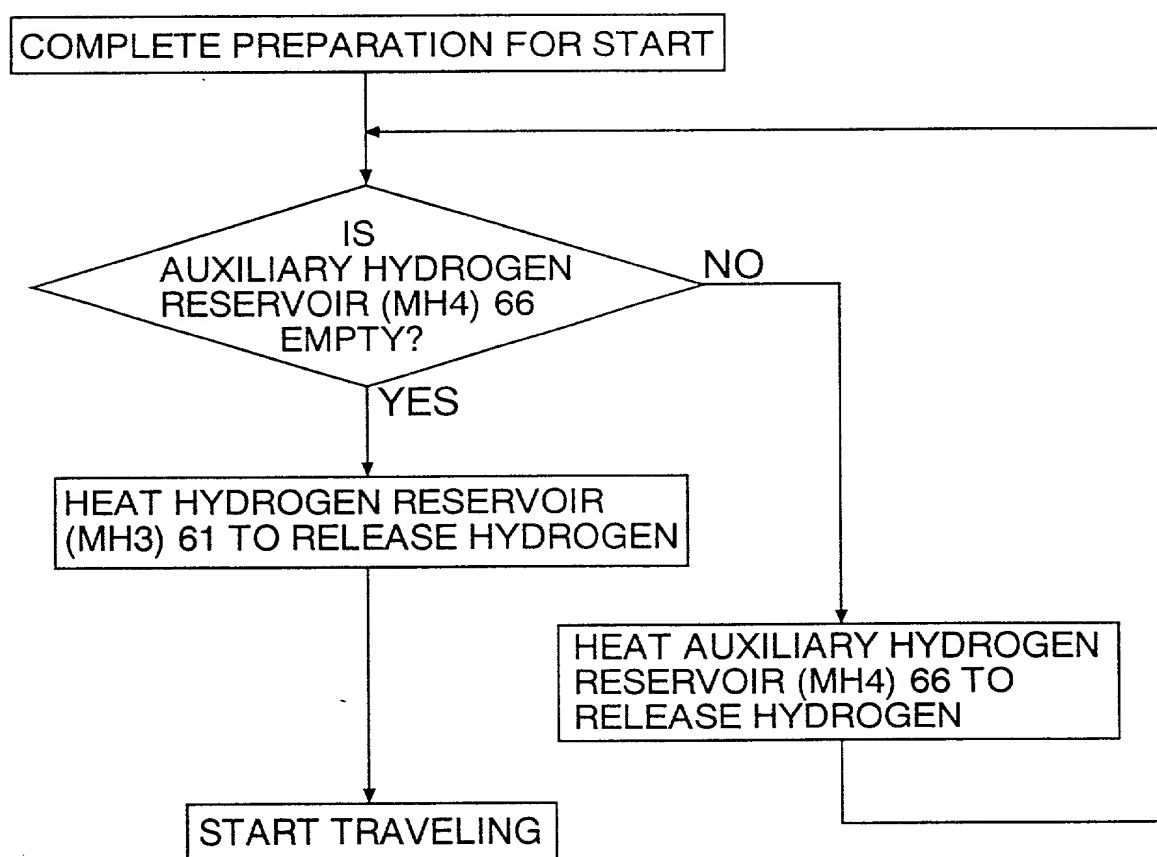


FIG.14

RECHARGING/3RD HYDROGEN-OCCLUSION  
ALLOY REGENERATION MODE

COMPLETE PREPARATION  
FOR HYDROGEN-CHARGING

HAS 3RD  
HYDROGEN-OCCLUSION ALLOY MH3  
DETERIORATION-INDICATING FLAG  
BEEN SET UP?

YES

IS REMAINING  
AMOUNT OF HYDROGEN  
OCCLUDED IN RESERVOIR (MH3) 61 EQUAL TO  
OR SMALLER THAN DEFINED  
AMOUNT?

YES

COOL 4TH HYDROGEN-OCCLUSION  
ALLOY MH4 TO 40°C

HEAT 3RD HYDROGEN-OCCLUSION  
ALLOY MH3 AND MAINTAIN IT AT  
TEMPERATURE OF 120°C FOR 10 MINUTES

NO

NO

STOP HEATING OF 3RD  
HYDROGEN-OCCLUSION ALLOY MH3  
AND STOP COOLING OF 4TH  
HYDROGEN-OCCLUSION ALLOY MH4

FINISH REGENERATION MODE

COOL 3RD HYDROGEN-OCCLUSION  
ALLOY MH3 TO 20°C AND  
START CHARGING OF HYDROGEN

MEASURE FLOW RATE OF HYDROGEN  
FLOWING INTO HYDROGEN RESERVOIR  
43 BY 1ST FLOWMETER 64

HAS 3RD  
HYDROGEN-OCCLUSION  
ALLOY MH3 BEEN  
DETERIORATED?

YES

SET UP FLAG INDICATING THAT  
REGENERATION TREATMENT  
SHOULD BE CARRIED OUT IN  
NEXT RECHARGING OF HYDROGEN

FINISH CHARGING WHEN INTERNAL PRESSURE  
IN HYDROGEN RESERVOIR 61 HAS REACHED  
PREDETERMINED VALUE

NO

FIG.15

